


INTERNATIONAL SEARCH REPORT

In  tional Application No
PCT/IB 03/05924

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G11B7/007 G11B27/24		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 G11B		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/060965 A1 (MAEDA SHIGEMI ET AL) 23 May 2002 (2002-05-23) paragraph '0012! - paragraph '0029! paragraph '0085! - paragraph '0096! figures 13A-15C	1-6, 8, 10
X	EP 0 986 051 A (SANYO ELECTRIC CO) 15 March 2000 (2000-03-15) paragraph '0007! paragraph '0012! - paragraph '0026! figures 1-5	1-5, 8, 10
A	EP 0 786 767 A (SHARP KK) 30 July 1997 (1997-07-30) column 4, line 18 - column 5, line 35 column 7, line 45 - column 9, line 20 figures 1, 5a <div style="text-align: center; margin-top: 10px;">-/-</div>	1-11
<div style="display: flex; justify-content: space-between;"> <input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex. </div>		
* Special categories of cited documents :		
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>*A* document defining the general state of the art which is not considered to be of particular relevance</p> <p>*E* earlier document but published on or after the international filing date</p> <p>*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>*O* document referring to an oral disclosure, use, exhibition or other means</p> <p>*P* document published prior to the international filing date but later than the priority date claimed</p> </div> <div style="width: 45%;"> <p>*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>*Z* document member of the same patent family</p> </div> </div>		
Date of the actual completion of the international search <div style="text-align: center; font-weight: bold;">19 May 2004</div>		Date of mailing of the international search report <div style="text-align: center; font-weight: bold;">28/05/2004</div>
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax (+31-70) 340-3016		Authorized officer <div style="text-align: center; font-weight: bold;">Pacholec, D</div>

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB 03/05924

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 031 816 A (HIROKANE JUNJI ET AL) 29 February 2000 (2000-02-29) column 3, line 12 - column 4, line 42; figures 1-2b,7-10 -----	1-11

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 03/05924

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2002060965	A1	23-05-2002	JP 11016216 A	22-01-1999
			AU 754618 B2	21-11-2002
			AU 7188098 A	24-12-1998
			CN 1203415 A	30-12-1998
			EP 0886266 A2	23-12-1998
			ID 20448 A	24-12-1998
			US 6327240 B1	04-12-2001
EP 0986051	A	15-03-2000	AU 4725797 A	30-12-1998
			EP 0986051 A1	15-03-2000
			JP 3197564 B2	13-08-2001
			US 6233219 B1	15-05-2001
			CN 1236467 A ,B	24-11-1999
			WO 9854703 A1	03-12-1998
			JP 2001155347 A	08-06-2001
EP 0786767	A	30-07-1997	KR 2000015990 A	25-03-2000
			EP 0786767 A2	30-07-1997
			JP 9265633 A	07-10-1997
			US 6172956 B1	09-01-2001
US 6031816	A	29-02-2000	US 5852599 A	22-12-1998
			JP 3483709 B2	06-01-2004
			JP 10027349 A	27-01-1998
			JP 3497331 B2	16-02-2004
			JP 10112074 A	28-04-1998
			US 6295271 B1	25-09-2001
			EP 0818778 A2	14-01-1998
			US 5933411 A	03-08-1999